

Product datasheet for **RG235882**

C15orf38 (ARPIN) (NM_001282380) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C15orf38 (ARPIN) (NM_001282380) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ARPIN
Synonyms: C15orf38
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235882 representing NM_001282380.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCGTCCTACAAGGTGGAAGCCAAGGGGACACTGACAGGCTCACGCCGAGGCGCTGAAGGGGCTG
GTCAACAAGCCAGAGCTGCTCGCGCTGACAGAGAGCCTCACCCCGACCACACAGTGGCGTTCTGGATG
CCCAGTCAGAGATGGAGGTGATGGAACTCGAGCTGGGGCCGGGTACGGCTGAAGACTCGGGCGAT
GGTCCCTCTGGATTCATTGGCCAACTTGGAGCTGGAACAGTGACCAAGTGAATTTCACTGGTGT
GAAAAGACAGGGGCATCCTGGACAGACAACATCATGGCCAAAAGTGTTCGAAGGGGCTGCAGCGGAG
ATCCGAGAGCAGGGGATGGGGCAGAGGACGAGGAGTGGGATGAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235882
Blue=ORF Red=Cloning site Green=Tag(s)

```
MSSYKVEAKGDTDRLTPEALKGLVKNPELLALTESLTPDHTVAFWMPSEMEVMELELGAVRLKTRGD
GPFLDSLAKLEAGTVTKCNFTGDGKTGASWTDNIMAQKCSKGAEEIREQDGAEEDEWDD
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites: Sgfl-MluI



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|------------------------|---|
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| Components: | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |
| RefSeq: | NM_001282380.1 , NP_001269309.1 |
| RefSeq Size: | 6503 bp |
| RefSeq ORF: | 393 bp |
| Locus ID: | 348110 |
| UniProt ID: | Q7Z6K5 |
| Cytogenetics: | 15q26.1 |
| MW: | 14.5 kDa |
| Gene Summary: | Regulates actin polymerization by inhibiting the actin-nucleating activity of the Arp2/3 complex; the function is competitive with nucleation promoting factors. Participates in an incoherent feedforward loop at the lamellipodium tip where it inhibits the ARP2/2 complex in response to Rac signaling and where Rac also stimulates actin polymerization through the WAVE complex. Involved in steering cell migration by controlling its directional persistence. [UniProtKB/Swiss-Prot Function] |